

VERSION WITH MARKINGS TO SHOW CHANGES MADE:

In the Claims:

1. (Amended Once) A system, comprising:
a computer configured to determine a position and shape of an object of interest from video images and to characterize activity of said object of interest based on analysis of changes in said position and said shape over time.
16. (Amended Once) A method of [determining and] characterizing activity of an object using a computer [processing of video images], comprising [the steps of]:
detecting a foreground object of interest in [said] video images;
tracking [changes to] said foreground object over a plurality of said video images;
[identifying and] classifying [said changes to] said foreground object in said plurality of video images; and
characterizing said activity of said foreground object based on comparison of said classifications to activity of a standard object.
36. (Amended once) A method for background subtraction of a video image, comprising the steps of:
grouping a number of images into a set of video images;
creating a standard deviation map of the grouped images;
removing a bounding box area of said image where variation is above a predetermined threshold to create a partial image; and

combining said partial image with an existing set of partial images by averaging the set of images to generate a complete background image depleted of a desired foreground object.